

# Current Sensor Series

MI-6100 Series



## Mechanical Specification

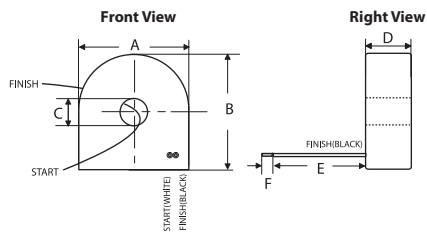


FIGURE 1

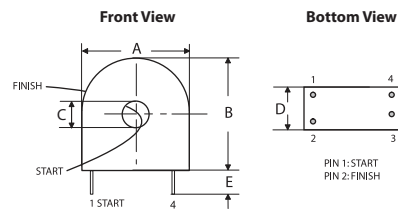


FIGURE 2

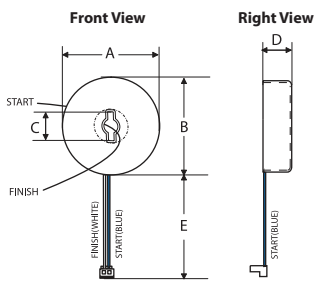


FIGURE 3

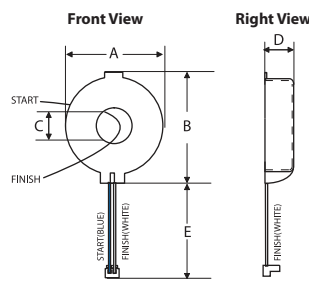


FIGURE 4

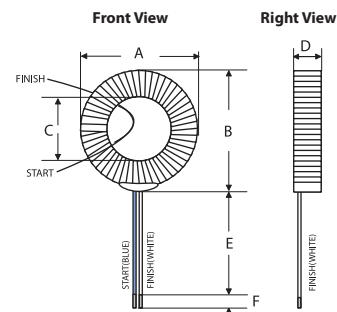


FIGURE 5

1. L & DCR tested at  $T_a=25^{\circ}\text{C}$
2. Turns tolerance is  $\pm 1.0\%$  typ
3. Operating Temperature Range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

Part Number	FIG.	A Max. in/mm	B Max. in/mm	C Max. in/mm	D Max. in/mm	E Nom. in/mm	F Nom. in/mm
MI-6101	1	0.910/23.1	0.969/24.6	0.094/4.7	0.433/11.0	5.40/137.0	0.118/3.0
MI-6102	2	1.004/25.5	0.994/25.25	0.240/6.1	0.532/135	0.138/3.5	---
MI-6103	3	1.700/43.18	1.700/43.18	0.480/12.19	0.730/18.55	7.00/177.8	---
MI-6104	4	1.881/47.78	2.375/60.33	.750/19.05	0.710/18.04	7.25/184.15	---
MI-6105	5	1.900/48.26	2.000/50.8	0.965/24.51	0.615/15.62	4.000/101.6	0.393/10.0

## Features

- For energy metering on single and poly-phase electronic watt-hour meters.
- Available for class 2 and 3 per reactive energy IEC62053-23.
- Accuracy class 0.5 and 0.2 as per ANSI C1.20 and IEC62053-22 for AC transformers.
- AC capability 20, 200, 320, 400 and 640 Amperes.
- Epoxy or tape wrapped coil protection.

## Electrical Specification

Part Number	L(H)	Tol.	FREQ. (Hz)	Turns Ratio	DCR( $\Omega$ ) Nom.	I <sub>rms</sub> Max. (A)	R <sub>b</sub> (ohms)
MI-6101	35	Min.	50	1:1500	46	20	30.0
MI-6102	238	$\pm 30\%$	50	1:2000	114	50	30.0
MI-6103	60	Min.	120	1:2000	25	200	27.2
MI-6104	55	Min.	120	1:2000	22	320	7.2
MI-6105	200	Min.	60	1:4000	66	640	7.2

# Current Sensor MI-6100 Series



## Linearity Amplitude & Phase Angle Error Bipolar

